

PRELIMINARY AGENDA: MISR Science Team Meeting December 2016
Beckman Institute Auditorium, California Institute of Technology, Pasadena, CA

Thursday, December 8

Welcome

8:15 AM	Sign-in	All	30
8:45 AM	Welcome	David Diner	10

Clouds and winds

Moderator: TBD

8:55 AM	Regional changes in cloud heights from MISR	Roger Davies	20
9:15 AM	The effects of cloud heterogeneity on microphysical properties through MISR-MODIS data fusion	Dongwei Fu	20
9:35 AM	Retrieving degree of ice particle surface roughness in clouds from multi-angle measurements	Souichiro Hioki	20
9:55 AM	Impact of vertical variations of cloud microphysics and drizzle on the angular anisotropic behavior of cloud droplet effective radius	Ming Su	20
10:15 AM	Discussion	All	10
10:25 AM	Break	All	20
10:45 AM	AirMSPI cloud droplet size retrievals during ORACLES	Gerard van Harten	20
11:05 AM	Arctic cloud albedo comparison between MISR and CERES	Yizhe Zhan	20
11:25 AM	Cloud volume reconstruction from MISR RCCM images	Byungsuk Lee	20
11:45 AM	Assessing the impact of MISR winds on short term weather forecast with GEOS-5 operational Data assimilation system	Junjie Liu	20
12:05 PM	Discussion	All	10
12:15 PM	Lunch	All	90

Land Surfaces, ice, and vegetation

Moderator: TBD

1:45 PM	Polar sea-ice spectral and broadband albedos from 2000-2016	Said Kharbouche	20
2:05 PM	A 35 year record of broadband and 18 years of spectral albedo and its intercomparison with MISR land surface albedos	Jan-Peter Muller	20
2:25 PM	Monitoring vegetation using MISR and DSCOVR data	Yuri Knyazikhin	20
2:45 PM	Potential sources of polarized light from a plant canopy	Vern Vanderbilt	20
3:05 PM	Discussion	All	10

Poster session I

3:15 PM	Poster viewing and break	All	70
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Other topics

4:25 PM	Six years of Airborne Multiangle SpectroPolarimetric Imager (AirMSPI): An overview	Felix Seidel	20
4:45 PM	The Terra Data Fusion Project	Larry Di Girolamo	20
5:05 PM	Discussion	All	10
5:15 PM	Adjourn		

Social event

6:30 PM	Dinner at the Maxwell House historical landmark 55 S. Grand Ave., Pasadena
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Friday, December 9

Aerosols

Moderator: TBD

8:30 AM	Is climatological aerosol optical depth averaged over the last 16+ years stable?	Kyo Lee	20
8:50 AM	Evaluation of PM _{2.5} predicted by Kriging, WRF-Chem, remote sensing and data fusing methods in North China Plain	Fengchao Liang	20
9:10 AM	Estimating particle speciation concentrations using MISR retrieved aerosol properties in southern California	Xia Meng	20
9:30 AM	Aerosol characterization in the southeast United States and how recent reductions in aerosol burden have contributed to accelerated summertime warming	Mick Tosca	20
9:50 AM	Discussion	All	10
10:00 AM	Break	All	20
10:20 AM	Long-term aerosol optical depth trends in China, United States and Western Europe and their relation to emission changes	Bin Zhao	20
10:40 AM	The integration of satellite derived aerosol optical depth with ground based measurements from low cost monitors in schools in Nairobi	Priyanka deSouza	20
11:00 AM	Multiangle observations of aerosol types for air-quality applications	Olga Kalashnikova	20
11:20 AM	MISR contributions to wildfire smoke and volcanic ash plume-height analysis	Ralph Kahn	20
11:40 AM	Radiative forcing of black carbon particles: Efforts from field measurements, satellite observations and global climate modeling	Yuan Wang	20
12:00 PM	Discussion	All	10
12:10 PM	Lunch	All	90

Aerosol products and retrievals

Moderator: TBD

1:40 PM	Status and applications of MISR's 4.4 km aerosol product (V23)	Michael Garay	20
2:00 PM	A subgrid-scale examination of the MISR 4.4 km aerosol product	Meredith Franklin	20
2:20 PM	Updated MISR dark-water research aerosol retrieval algorithm: Coupled aerosol and ocean-surface chlorophyll-a retrievals	Jim Limbacher	20
2:40 PM	Combined aerosol and surface reflectance retrieval: Importance of target revisits	Feng Xu	20
3:00 PM	A glimpse on aerosol composition from GLI-2003	Alexei Lyapustin	20
3:20 PM	Discussion	All	10

Poster session II

3:30 PM	Poster viewing and break	All	60
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Wrap-up

4:30 PM	Closing comments	David Diner	15
4:45 PM	Adjourn		

Social event

7:30 PM	Pipe organ concert at Wilshire United Methodist Church 4350 Wilshire Blvd., Los Angeles
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Posters

No.	Title	Author
1	The integration of satellite derived aerosol optical depth with ground based measurements from low cost monitors in schools in Nairobi	Priyanka deSouza
2	Regional changes in Earth's color and texture as observed from space over a 15-year period	Larry Di Girolamo
3	The response of cloud fraction to climate variability over the extratropical oceans as observed by MISR and MODIS	Andrew Geiss
4	FIGFIGO: A portable goniometer system for spectropolarimetry	Maria Gritsevich
5	An advanced visualization to monitor the three-dimensional structure of aerosol plumes retrieved from the Multi-angle Imaging SpectroRadiometer (MISR)	Richard Kim
6	Unified remote-sensing of optical and microphysical parameters in 3D	Aviad Levis
7	MISR research aerosol retrieval algorithm developments — Over-ocean advances in aerosol and associated surface retrievals	Jim Limbacher/ Ralph Kahn
8	Super-resolution restoration experiments with MISR	Jan-Peter Muller
9	Global smoke plume heights: Analysis from MINX for 2009 and 2010	Mick Tosca
10	Leaf relative water content estimated from leaf reflectance and transmittance	Vern Vanderbilt
11	Update on the MISR-HR project	Michel Verstraete/ Linda Hunt
12	Characterizing dust source regions across North Africa and the Middle East using MISR products	Yan Yu